CanoScan FS 4000 US

PARTS CATALOG

REVISION 0

CanoScan FS4000US

100V	**(JPN)**	**D78-0137-001**
115V	**(US/CAN)**	**D78-0137-002**
220V	**(EUR)**	**D78-0137-003**
240V	**(UK/HK)**	**D78-0137-004**
240V	**(AUS)**	**D78-0137-005**
220V	**(SPL/CLA)**	**D78-0137-006**

Canon

DEC. 2001

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PREFACE

This Parts Catalog contains listings of parts used in the CANOSCAN FS4000US.

Diagrams are provided with the listings to aid the service technician in identifying clearly, the item to be ordered.

Whenever ordering parts, consult this Parts Catalog for all of the information pertaining to each item. Be sure to include in the Parts Request, the full item description, the item part number and the quantity.

Imaging Solutions TechnicalSupport Dept.
Imaging Solutions Quality Assurance Div.
Canon Inc.

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Use of this parts catalog should be strictly supervised to avoid disclosure of confidential information.

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HOW TO USE PARTS LIST

Assembly Location Diagrams. These diagrams show the locations of major assemblies of the copier. Their names are identified in rectangular boxes. Below each box is the number of the Figure which shows an exploded view of the assembly.

Finding a Parts Number. Refer to the Assembly Location Diagrams and find the Figure Number of the assembly of interest. Turn to the page(s), locate the part on the exploded view, and find its Key Number. Refer to the Parts List on the page facing the exploded view and find the Key Number, Part Number and quantity required for your type of machine.

Note : While looking for a Part Number, pay particular attention to the voltage listed in the SERIAL NUMBER/REMARKS column to ensure that the Part Number selected is for your type of machine.
Immediate shipping or action regarding the part depends on using its correct Part Number.

Parts List pages. The Parts List pages contain the following columns and information.

(1) Figure and Key Number column. The first column shows the Figure Number of the illustration corresponding to the Parts List, and the Key Number that identifies the part on the illustration.

(2) Part Number. The second column shows the Part Number for the part. This Number must be used when ordering replacement parts. The parts and assemblies identified as "NPN" do not have parts numbers or are not in stock, i.e., they are not available for ordering.

Note : The last three digits (suffix) of the Parts Number are called the Revision Number.
The Revision Number is changed if the part is modified. Information regarding such changes will be provided by Service Information Bulletins. These Bulletins should be read carefully.

(3) Rank N. Parts marked "N" are service parts, but are not stock items. They are produced on a special-order basis.

(4) Quantity column. The quantity shown in this column is the number of parts used in the Figure. However, the quantity listed for an assembly indicates the number of that assembly per machine.

The letters in this column indicate that the quantity of a part is not specified, allowing the use of the number of parts needed for assembly and that the quantity cannot be mentioned clearly.

R F...listed for reference only.
AR...quantity not specified or cannot be specified; used in quantities as necessary at time of assmebly.

(5) Description column. The Description column lists the description that should be used when ordering the part.

(6) Serial Number/Remarks. When there are differences in the specifications of power supply voltage, frequency, etc., the differences are described in words or indicated by one, two or three letters in front of the serial number.

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(Example)

Serial number ABC00001

└ These are the descriptive indicator.

If a modified model and a part are no longer interchangeable, the serial number of copiers for which the part can be used is shown in this column. If there is no indication the part can be used with all models.

Connectors list. Part numbers of connectors used in copiers and designated as Service Parts are listed in numerical order by connector number.

For connectors of which the housing and contacts are a single unit, there are no part numbers for the contact.

Connectors that are mounted on PCBs are indicated as "PCB" in the connector column. The part numbers for these connectors should be looked for in the PCB parts list.

List of Standard Fasteners. This specifications list incorporates screws, nuts, washers and shim washers, retaining rings, pins, and spacers that are used in all copiers (including optional equipment).

Numerical Index. There is a Numerical Index at the end of this catalog; it lists in numerical order every Part Number contained in the Parts Lists. The Numerical Index contains the following columns and information.

(1) Part Number. The first column shows the Part Number.

(2) Figure and Key Number column. The second column lists the Figure and Key Number for each occurrence of the part in the illustrations.

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FIGURE 100 EXTERNAL COVERS, PANELS, ETC.

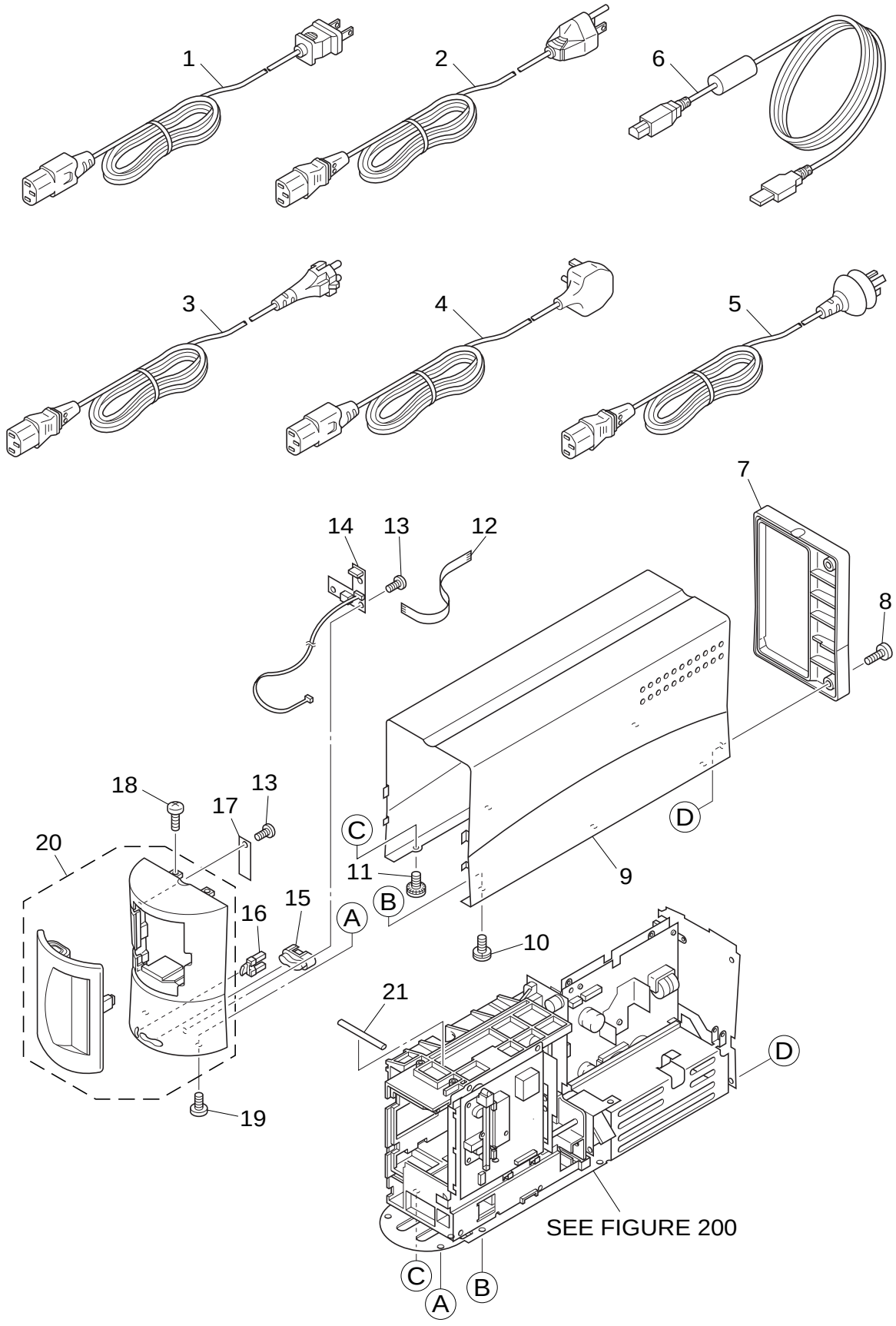

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FIGURE & KEY NO.	PARTS NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS
100 -	NPN		RF	EXTERNAL COVERS, PANELS, ETC.	
1	YH2-0422-000		1	CORD, POWER, JPN	D78-0137-001
2	YH2-0418-000		1	CORD, POWER, US/CAN	D78-0137-002
3	YH2-0419-000		1	CORD, POWER, EUR	D78-0137-003/D78-0137-006
4	YH2-0420-000		1	CORD, POWER, UK	D78-0137-004
5	YH2-0421-000		1	CORD, POWER, CA	D78-0137-005
6	YH2-0412-000		1	CABLE, USB	
7	YA7-1280-000		1	COVER, REAR	
8	XB1-1301-007		4	SCREW, M3X10	
9	YA7-1259-000		1	COVER, UPPER	
10	YA6-0017-000		5	SCREW, W/WASHER, M3X6	
11	XB2-7300-507		1	SCREW, W/TOOTHED WASHER, M3X5	
12	YH2-0410-000		1	FPC, LAMP-FRONT	
13	XA4-4200-459		4	SCREW, M2X4.5	
14	DY4-6355-000		1	FRONT PCB ASS'Y	
15	YA7-1252-000		1	BUTTON, POWER SW	
16	YA7-1253-000		1	WINDOW, LED	
17	YA7-1282-000		1	SPRING, PLATE	
18	XB4-6300-609		2	SCREW, M3X6	
19	YA7-1372-000		2	WASHER HEAD SCREW	
20	DY4-6352-000		1	COVER ASS'Y, FRONT	
21	YA7-1361-000		1	GASKET, CIRCUIT PROTECTION	

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FIGURE 200 EXTERNAL COVERS, PANELS, ETC.

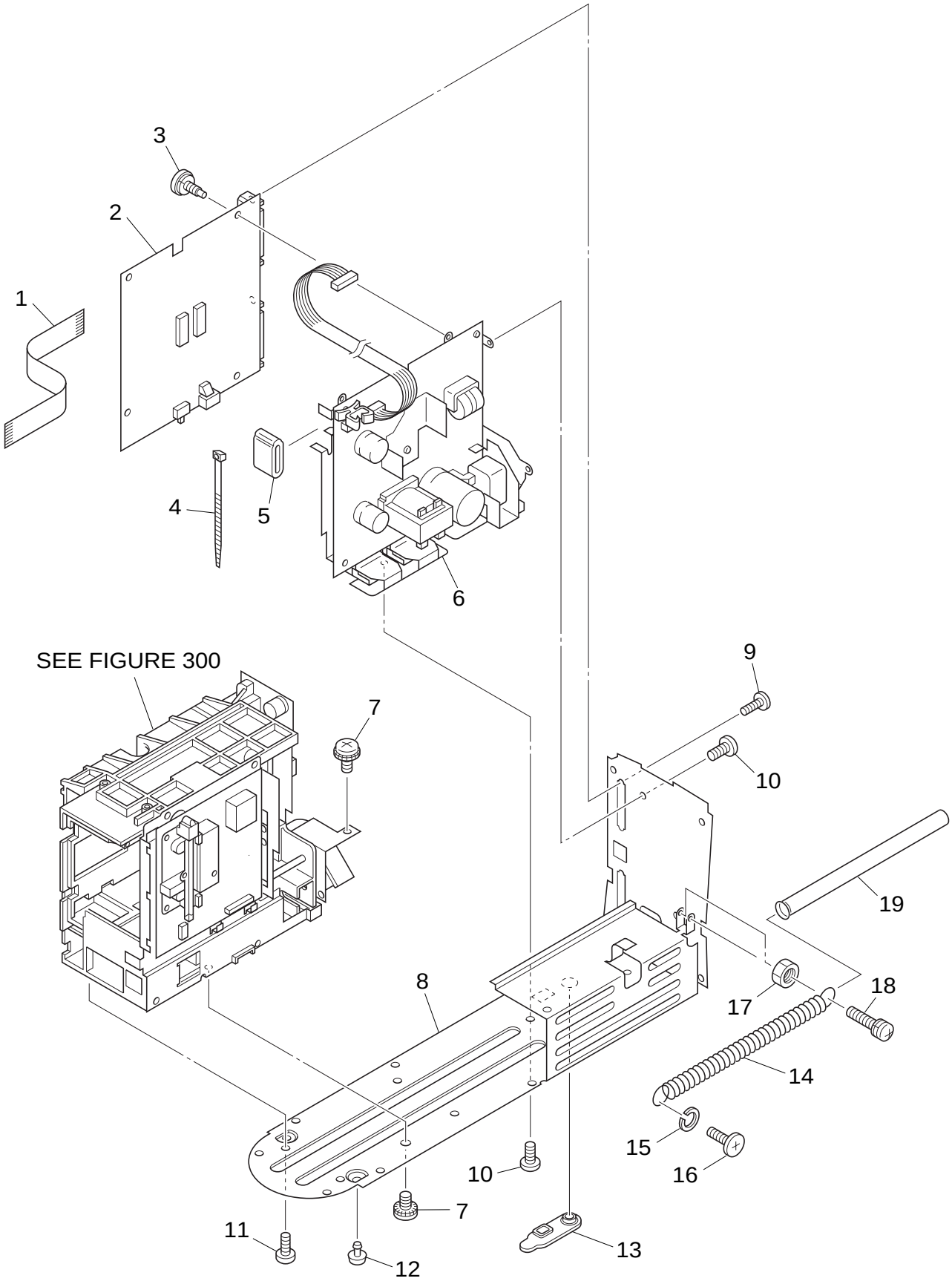

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FIGURE & KEY NO.	PARTS NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS
200 -	NPN		RF	EXTERNAL COVERS, PANELS, ETC.	
1	YH2-0413-000		1	FPC, CCD-MAIN	
2	YG7-0139-000		1	MAIN PCB ASS'Y	
3	YA6-0017-000		4	SCREW, W/WASHER, M3X10	
4	NPN		1	TIE, CABLE	
5	WE8-5071-000		1	FERRITE BEAD	
6	YG7-0140-000		1	DC POWER SUPPLY ASS'Y	
7	XB2-7300-507		2	SCREW, W/TOOTHED WASHER, M3X5	
8	YG7-0154-000		1	PLATE BASE	
9	YA6-0005-000		4	SCREW	
10	XB1-1300-407		5	SCREW, M3X4	
11	XB4-6300-607		4	SCREW, M3X6	
12	YF1-0056-000		4	FOOT	
13	YA7-1258-000		1	CAP, BOTTOM	
14	NPN		1	SPRING, COIL, CARRIAGE	
15	NPN		1	WASHER, SPRING	
16	NPN		1	SCREW	
17	YA7-1263-000		1	HEXAGON NUT, M6	
18	XB2-2301-007		1	SCREW W/SPRING WASHER, M3X10	
19	YA7-1362-000		1	TUBE, HEAT SHURINK	

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FIGURE 300 SCANNER ASS'Y

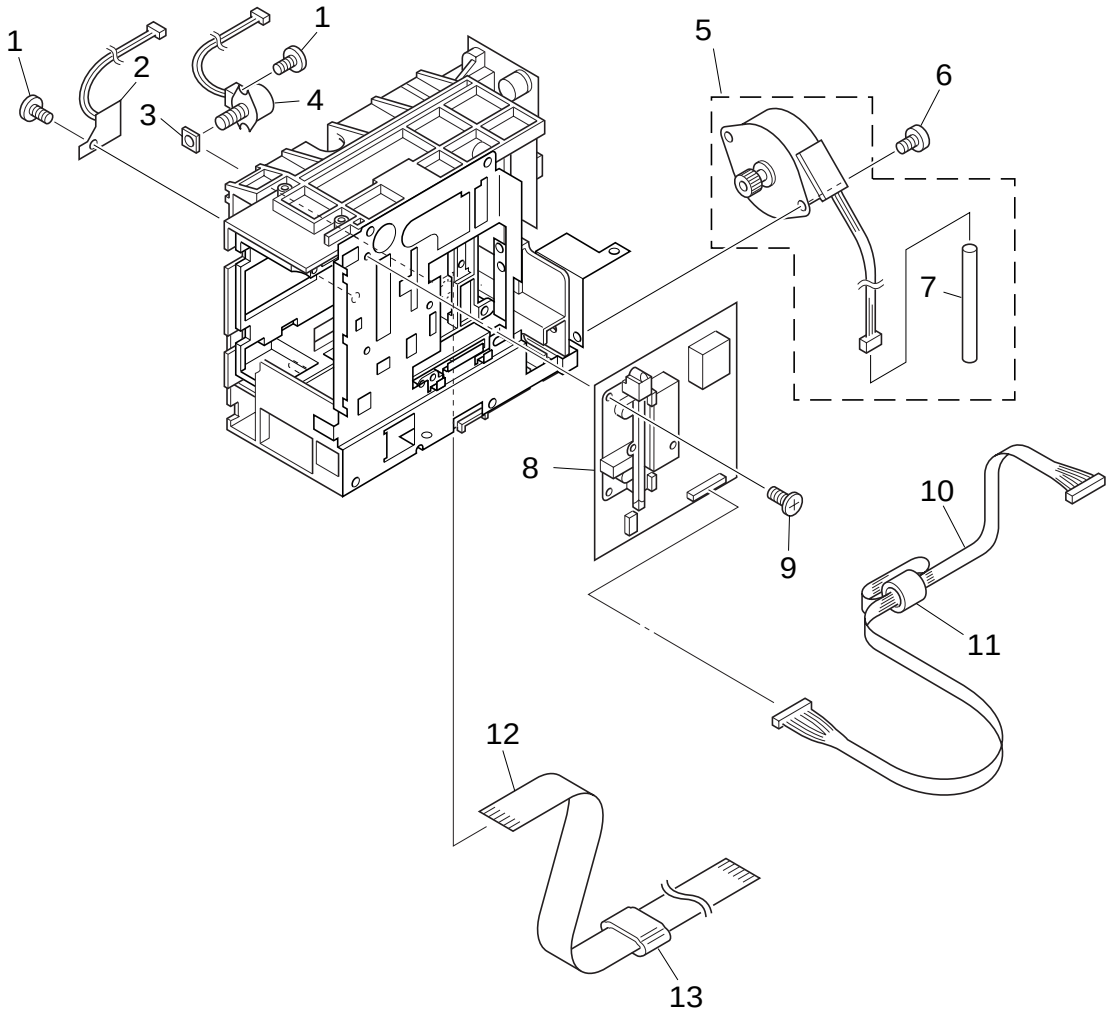

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FIGURE & KEY NO.	PARTS NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS
300 -	DY4-6350-000		1	SCANNER ASS'Y	
1	XA4-4200-459		3	SCREW, M2X4.5	
2	YG7-0145-000		1	AF-PI PCB ASS'Y	
3	YA7-1248-000		1	NUT, AF DRIVE	
4	YG7-0158-000		1	MOTOR ASS'Y, AF	
5	DY4-6356-000		1	MOTOR ASS'Y, SUB-SCAN	
6	XB1-1300-309		2	SCREW, M3X3	
7	NPN		1	TUBE, HEAT SHURINK	
8	NPN		1	LAMP PCB ASS'Y	
9	NPN		3	SCREW, M2X3	
10	YH2-0411-000		1	CONNECTOR ASS'Y, LAMP-MAIN	
11	WE8-0027-000		1	FERRITE BEAD	
12	YH2-0406-000		1	FPC, CARRIAGE-MAIN	
13	WE8-5071-000		1	FERRITE BEAD	

FIGURE C LIST OF STANDARD FASTENERS

I. SCREWS C-2
A. Machine screws (for precision use) C-3
B. Pan head machine screws C-3
E. Binding head machine screws C-3
F. Flat head machine screws C-3
G. Self-tapping screws C-4
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J. Pan head machine screws with toothed washer C-4
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L. Hex socket setscrews and socket head cap screws C-5
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U. Plain washers, spring washers & toothed lock washers C-7
IV. RETAINING RINGS C-8
V. E rings C-8
W. Grip rings C-8
X. C rings C-9
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Y. Spring and dowel pins C-10
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Z. Spacers C-10

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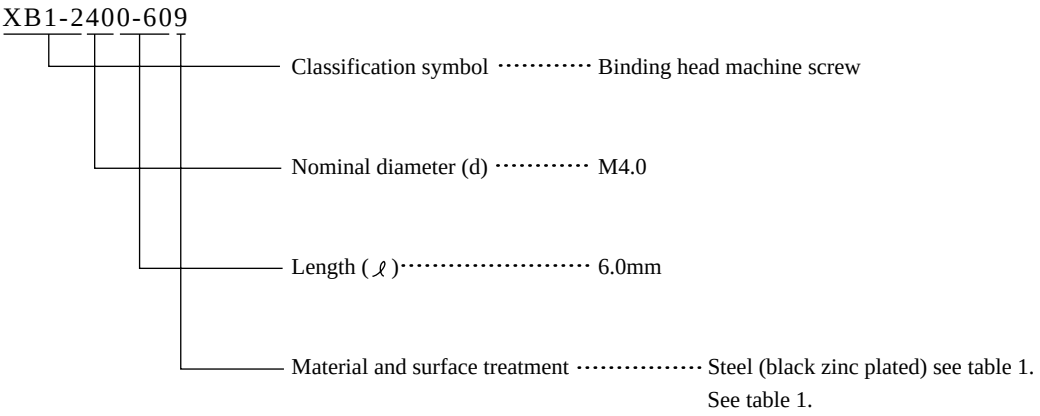
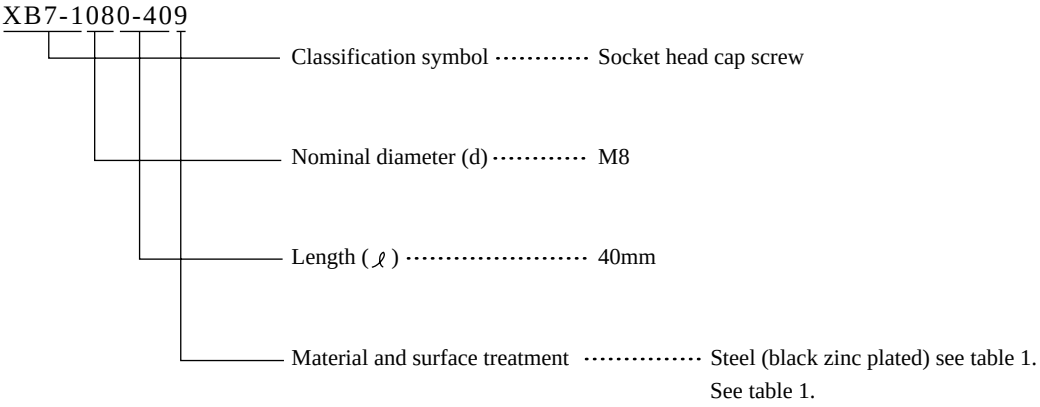
I. SCREWS

How to read Part Numbers

Screws (except socket head cap screws)


XB1-2400-609
Classification symbol ····· Binding head machine screw
Nominal diameter (d) ····· M4.0
Length (ℓ) ····· 6.0mm
Material and surface treatment ····· Steel (black zinc plated) see table 1.
See table 1.

Socket head cap screws


XB7-1080-409
Classification symbol ····· Socket head cap screw
Nominal diameter (d) ····· M8
Length (ℓ) ····· 40mm
Material and surface treatment ····· Steel (black zinc plated) see table 1.
See table 1.

Material and surface tratment

NO.	Material	Surface treatment	Color
1	Stainless	Blackened	Black
2		Without surface treatment	White
3	Brass	Nickel plated	White
4		Black nickel plated	Black
5	Steel	Zinc plated	Yellow
6		Nickel and chrome plated	White
7		Nickel plated	White
8		Phosphated	Black
9		Black zinc plated	Black

Table 1

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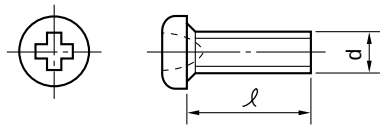
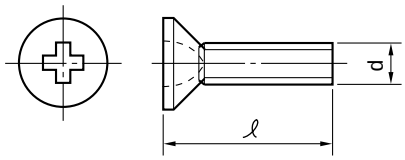
A. MACHINE SCREWS (FOR PRECISION USE)

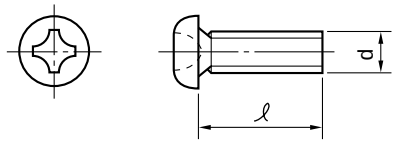
Pan head machine screws



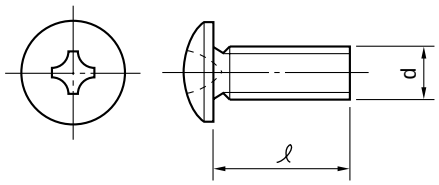
Flat head machine screws



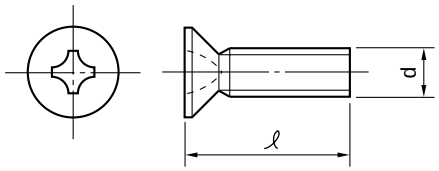
B. PAN HEAD MACHINE SCREWS



E. BINDING HEAD MACHINE SCREWS



F. FLAT HEAD MACHINE SCREWS



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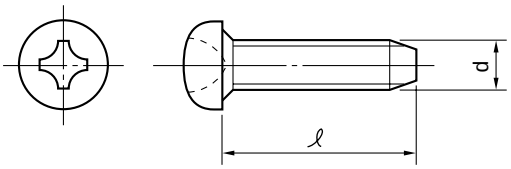
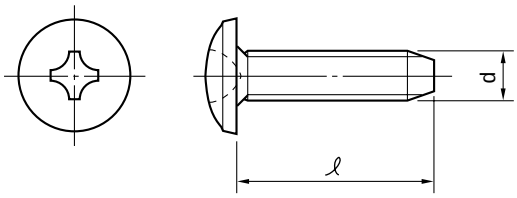
G. SELF-TAPPING SCREWS

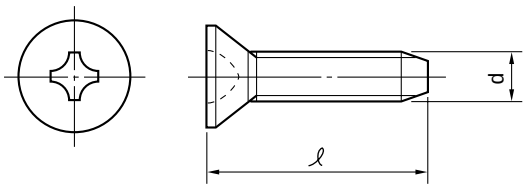
Pan head self-tapping screws



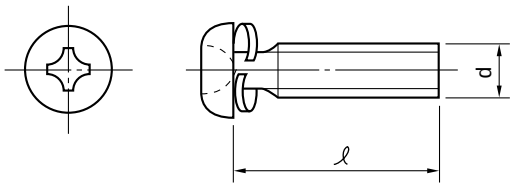
Binding head self-tapping screws



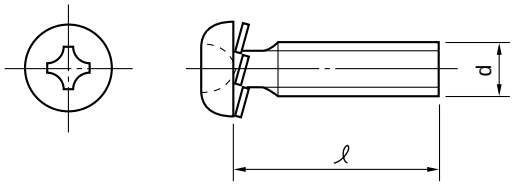
Flat head self-tapping screws



H. PAN HEAD MACHINE SCREWS
WITH CAPTIVE SPRING WASHER



J. PAN HEAD MACHINE SCREWS
WITH TOOTHED WASHER



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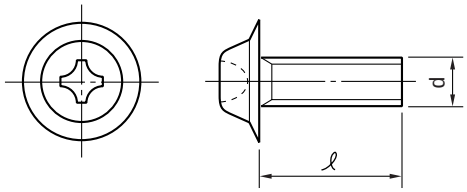
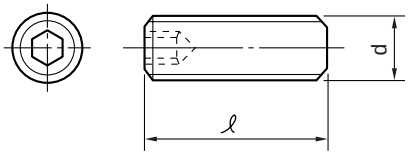
K. WASHER HEAD MACHINE SCREWS

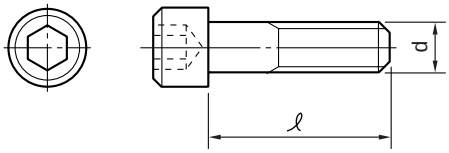


L. HEX SOCKET SETSCREWS AND SOCKET HEAD CAP SCREWS

Hex socket setscrews



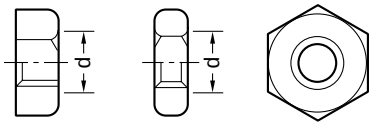
Socket head cap screws



II. NUTS

M. HEXAGON NUTS

Class 1 Class 3



How to read Part Numbers

XB7-2100-309

Hexason nut

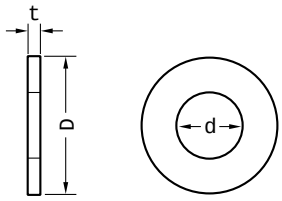
Nominal diameter (d) ····· M3.0

Material and surface treatment ····· Steel (black zinc plated)
See table 1.

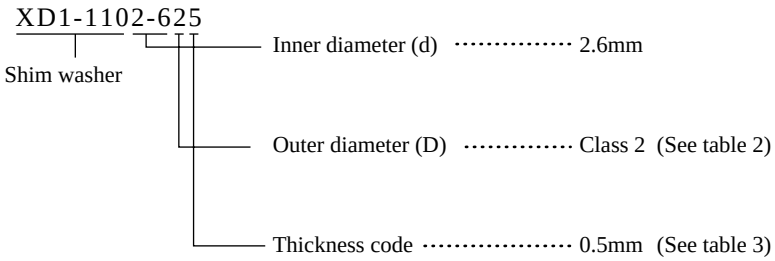
XB7-210 ····· Class 1
XB7-220 ····· Class 3

III. WASHERS AND SHIM WASHERS

N., S. & T. SHIM WASHERS



How to read Part Numbers



*Material : Brass

d (mm)	D (mm)		
	Class 1	Class 2	Class 3
1.5	—	2.6	3.2
1.8	2.7	3.1	3.7
2.1	3.2	3.6	4.2
2.3	3.6	4.0	4.6
2.6	4.0	4.4	5.0
3.1	4.6	5.0	5.6
3.6	5.4	5.8	6.4
4.1	5.7	6.6	8.0
4.6	6.4	7.4	9.0
5.2	7.2	8.2	10.0
5.7	7.8	9.0	11.0
6.2	8.5	9.8	12.0
6.7	9.2	10.5	13.0
7.2	10.0	11.4	14.0
7.7	10.6	12.2	15.0
8.2	11.4	13.0	16.0
8.7	12.0	13.8	17.0
9.2	12.8	14.6	18.0
9.7	13.5	15.4	19.0

Table 2

Thickness code	t (mm)
0	0.05
1	0.1
2	0.2
3	0.3
4	0.4
5	0.5
6	0.6
7	0.7
8	0.8
9	1.0

Table 3

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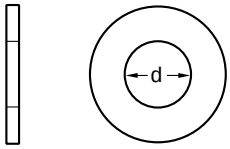
U. PLAIN WASHERS, SPRING WASHERS & TOOTHED LOCK WASHERS

Plain washers

How to read Part Numbers



XD1-2100-307

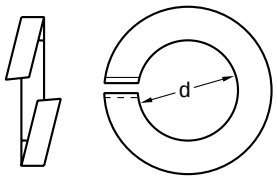
Plain washer

Inner diameter (d) ····· 3.0mm

Material and surface treatment ····· Steel (nickel plated)
See table 1.

Spring washers

How to read Part Numbers



XD1-3100-507

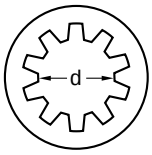
Spring washer

Inner diameter (d) ····· 5.0mm

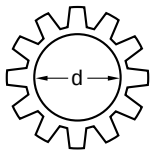
Material and surface treatment ····· Steel (nickel plated)
See table 1.

Toothed lock washers

Inner toothed type



Over toothed type



How to read Part Numbers

XD1-4100-302

Toothed lock washer

Inner diameter (d) ····· 3.0mm

Materrial and surface treatment ····· Stainless (without surface treatment)

XD1-410 ····· Inner toothed type
XD1-420 ····· Outer toothed type

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IV. RETAINING RINGS

V. E RINGS

How to read Part Numbers

XD2-1100-172

E ring

Inner diameter (d) ····· 1.7mm

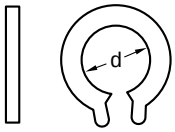
Material and surface treatment ····· Steel (nickel plated)

2 ····· Stainless (without surface treatment)

7 ····· Steel (nickel plated)

XD2-110 ····· Class 1
XD2-120 ····· Class 2

W. GRIP PINGS



How to read Part Numbers

XD2-2100-502

Grip ring

Inner diameter (d) ····· 5.0mm

Material and surface treatment ····· Stainless (without surface treatment)

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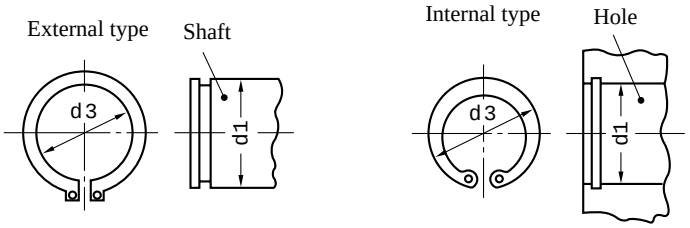
X. C RINGS



How to read Part Numbers

XD2-3100-202

C ring

Nominal diameter (d1)····· 20mm
See table 4/5.

Material and surface treatment
- 2 Stainless (without surface treatment)
- 8 Steel (phosphated)

XD2-310 ····· External type
XD2-320 ····· Internal type

Exlernal type

Nominal diameter	d1 (mm)	d3 (mm)
010	10	9.3
012	12	11.1
014	14	12.9
015	15	13.8
016	16	14.7
017	17	15.7
018	18	16.5
020	20	18.5
022	22	20.5
025	25	23.2
028	28	25.9
030	30	27.9
032	32	29.6
035	35	32.2

Table 4

Exlernal type

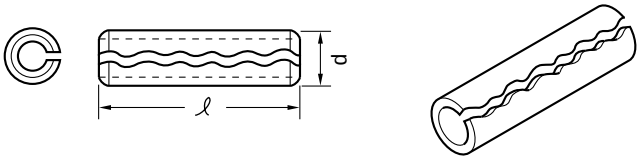
Nominal diameter	d1 (mm)	d3 (mm)	Nominal diameter	d1 (mm)	d3 (mm)
010	10	10.7	040	40	43.5
011	11	11.8	042	42	45.5
012	12	13.0	045	45	48.5
014	14	15.1	047	47	50.5
016	16	17.3	050	50	54.2
018	18	19.5	052	52	56.2
019	19	20.5	055	55	59.2
020	20	21.5	060	60	64.2
022	22	23.5	062	62	66.2
025	25	26.9	068	68	72.5
028	28	30.1	072	72	76.5
030	30	32.1	075	75	79.5
032	32	34.4	080	80	85.5
035	35	37.8	085	85	90.5
037	37	39.8	090	90	95.5
			095	95	100.5

Table 5

V. PINS

Y. SPRING AND DOWEL PINS

Spring pins



How to read Part Numbers

XD3-1200-122

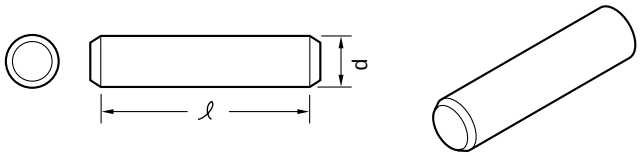
Spring pin

Nominal deameter (d) ····· 2.0mm

Lensth (ℓ) ····· 12mm

Material and surface treatment ····· Stainless (without surface treatment)

Dowel pins



How to read Part Numbers

XD3-2200-082

Dowel pin

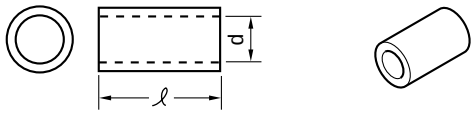
Nominal deameter (d) ····· 2.0mm

Lensth (ℓ) ····· 8.0mm

Material and surface treatment ····· Stainless (without surface treatment)

VI. SPACERS

Z. SPACERS



How to read Part Numbers

XZ1-1300-305

Spacer

Nominal deameter (d) ····· 3.0mm

Lensth (ℓ) ····· 3.0mm

Material and surface treatment ····· Steel (zinc plated)

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FIGURE D NUMERICAL INDEX

PARTS NUMBER	FIGURE & KEY NO.	PARTS NUMBER	FIGURE & KEY NO.	PARTS NUMBER	FIGURE & KEY NO.
DY4 - 6350 - 000	300 -				
DY4 - 6352 - 000	100 - 20				
DY4 - 6355 - 000	100 - 14				
DY4 - 6356 - 000	300 - 5				
WE8 - 0027 - 000	300 - 11				
WE8 - 5071 - 000	200 - 5				
WE8 - 5071 - 000	300 - 13				
XA1 - 1200 - 309	300 - 6				
XA4 - 4200 - 459	100 - 13				
XA4 - 4200 - 459	300 - 1				
XB1 - 1300 - 309	300 - 6				
XB1 - 1300 - 407	200 - 10				
XB1 - 1301 - 007	100 - 8				
XB2 - 2301 - 007	200 - 18				
XB2 - 7300 - 507	100 - 11				
XB2 - 7300 - 507	200 - 7				
XB4 - 6300 - 607	200 - 11				
XB4 - 6300 - 609	100 - 18				
YA6 - 0005 - 000	200 - 9				
YA6 - 0017 - 000	100 - 10				
YA6 - 0017 - 000	200 - 3				
YA7 - 1248 - 000	300 - 3				
YA7 - 1252 - 000	100 - 15				
YA7 - 1253 - 000	100 - 16				
YA7 - 1258 - 000	200 - 13				
YA7 - 1259 - 000	100 - 9				
YA7 - 1263 - 000	200 - 17				
YA7 - 1280 - 000	100 - 7				
YA7 - 1282 - 000	100 - 17				
YA7 - 1361 - 000	100 - 21				
YA7 - 1362 - 000	200 - 19				
YA7 - 1372 - 000	100 - 19				
YF1 - 0056 - 000	200 - 12				
YG7 - 0139 - 000	200 - 2				
YG7 - 0140 - 000	200 - 6				
YG7 - 0145 - 000	300 - 2				
YG7 - 0154 - 000	200 - 8				
YG7 - 0158 - 000	300 - 4				
YH2 - 0406 - 000	300 - 12				
YH2 - 0410 - 000	100 - 12				
YH2 - 0411 - 000	300 - 10				
YH2 - 0412 - 000	100 - 6				
YH2 - 0413 - 000	200 - 1				
YH2 - 0418 - 000	100 - 2				
YH2 - 0419 - 000	100 - 3				
YH2 - 0420 - 000	100 - 4				
YH2 - 0421 - 000	100 - 5				
YH2 - 0422 - 000	100 - 1				

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